

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P640394

Luminaire Tested: ML5609LSVWFL75D2W1E - 592H - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640394  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-72)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFL75D2W1E - 592H - 900LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 5" HAZE TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

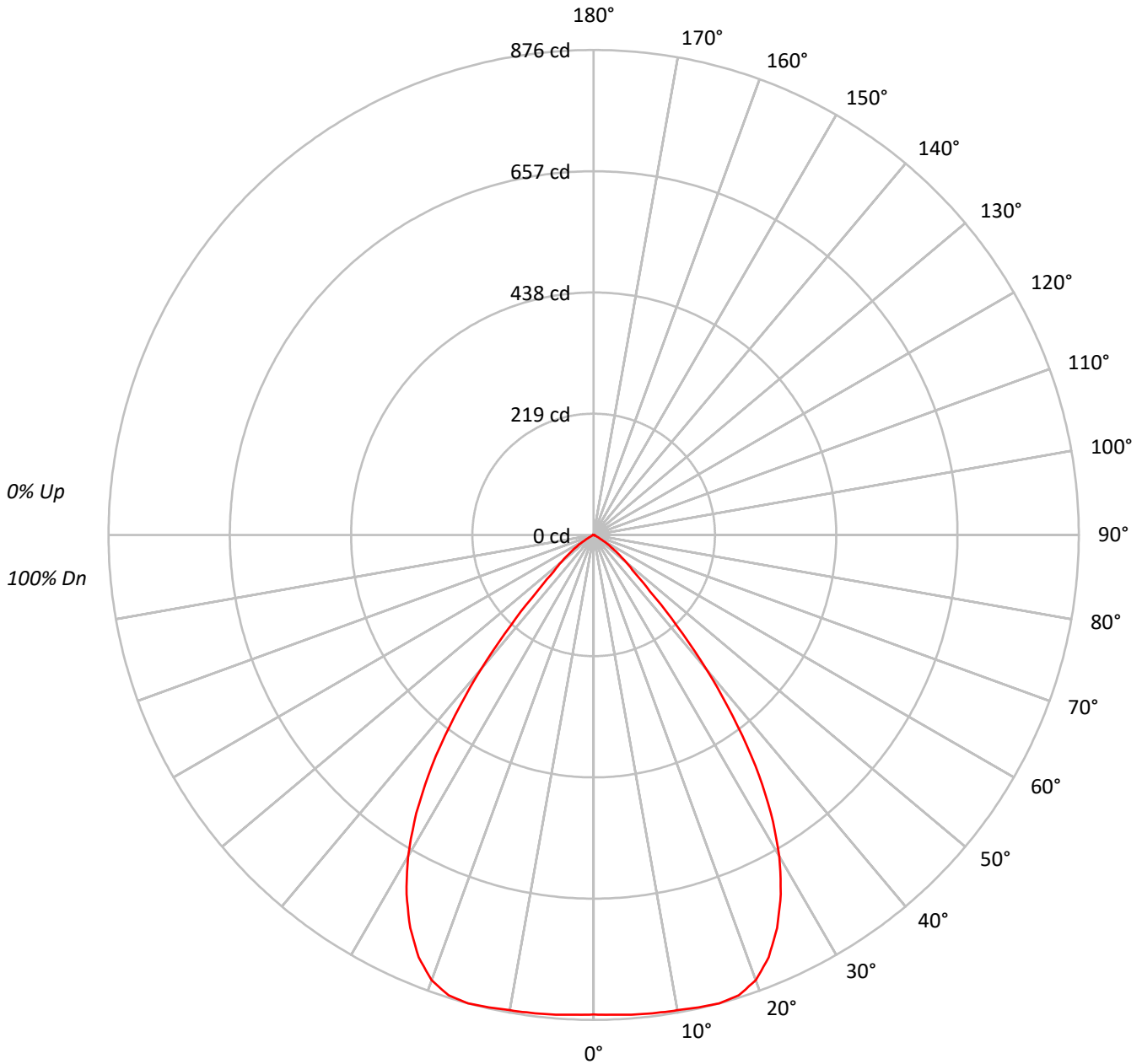
Lumens per Lamp: N/A  
Luminaire Lumens: 1164.1 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65																			
6	84	74	68	63	83	74	67	63	72	67	63	71	66	62	69	65	62	60																			
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	53	63	57	53	62	57	53	61	56	53	51																			
9	71	60	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48																			
10	67	57	50	46	66	56	50	46	55	50	46	55	49	46	54	49	46	44																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	68394
5°	68917
10°	69882
15°	71600
20°	71885
25°	68244
30°	61100
35°	49119
40°	32543
45°	15998
50°	9395
55°	5491
60°	1879
65°	411
70°	254
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15998 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.1	7.1
10°-20°	246.9	21.2
20°-30°	356.6	30.6
30°-40°	311.3	26.7
40°-50°	125.1	10.7
50°-60°	36.7	3.2
60°-70°	4.0	0.3
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	686.5	59.0
0°-40°	997.9	85.7
0°-60°	1159.7	99.6
0°-90°	1164.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1164.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	866	
5°	870	83
15°	876	247
25°	784	357
35°	510	311
45°	143	125
55°	40	37
65°	2	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	866.4
2.5°	867.5
5°	869.7
7.5°	870.8
10°	871.8
12.5°	874.0
15°	876.1
17.5°	871.8
20°	855.7
22.5°	825.5
25°	783.5
27.5°	731.7
30°	670.3
32.5°	596.0
35°	509.7
37.5°	411.7
40°	315.8
42.5°	222.0
45°	143.3
47.5°	98.1
50°	76.5
52.5°	56.0
55°	39.9
57.5°	25.9
60°	11.9
62.5°	6.5
65°	2.2
67.5°	1.1
70°	1.1
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)